

PATENT COOPERATION TREATY

Patent Mail Received
JUL 14 2008

PCT

From the INTERNATIONAL SEARCHING AUTHORITY

To:

DORSEY & WHITNEY LLP
Attn. Abelev, Gary
250 Park Avenue
New York NY 10177
ETATS-UNIS D'AMERIQUE

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year)	04/07/2008
Applicant's or agent's file reference 188002/PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US2008/051432	International filing date (day/month/year) 18/01/2008
Applicant THE GENERAL HOSPITAL CORPORATION	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders


Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Chrissanthi Choulouilidou
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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 188002/PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2008/051432	International filing date (day/month/year) 18/01/2008	(Earliest) Priority Date (day/month/year) 19/01/2007
Applicant THE GENERAL HOSPITAL CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:



the international application in the language in which it was filed



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

Certain claims were found unsearchable (See Box No. II)

3. ☐

Unity of invention is lacking (see Box No III)

4. With regard to the **title**,



the text is approved as submitted by the applicant



the text has been established by this Authority to read as follows:

APPARATUS AND METHOD FOR SIMULTANEOUS INSPECTION AT DIFFERENT DEPTHS BASED ON THE PRINCIPLE OF FREQUENCY DOMAIN OPTICAL COHERENCE TOMOGRAPHY

5. With regard to the **abstract**,



the text is approved as submitted by the applicant



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3



as suggested by the applicant



as selected by this Authority, because the applicant failed to suggest a figure



as selected by this Authority, because this figure better characterizes the invention

b. ☐

none of the figures is to be published with the abstract

A. CLASSIFICATION OF SUBJECT MATTER

INV. G01B9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01B G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 738 144 B1 (DOGARIU ARISTIDE [US]) 18 May 2004 (2004-05-18) column 4, line 18 - line 61	1-6
Y	column 7, line 65 - column 8, line 25; figure 4	7
Y	----- US 2006/244973 A1 (YUN SEOK-HYUN [US] ET AL) 2 November 2006 (2006-11-02) *title, abstract* *figures 5, 7, 10A* page 1, paragraph 1 - page 3, paragraph 26 page 7, paragraph 91 - page 8, paragraph 95	1,2,4-7
A	page 11, paragraph 122 - page 14, paragraph 151 ----- -/--	3



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

17 June 2008

Date of mailing of the international search report

04/07/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 551 apo nl,
Fax: (+31-70) 340-3016

Authorized officer

Malcoci, Andrei

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JONATHAN E: "Dual reference arm low-coherence interferometer-based reflectometer for optical coherence tomography (OCT) application" 1 August 2005 (2005-08-01), OPTICS COMMUNICATIONS, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, PAGE(S) 202 - 211 , XP004964674 ISSN: 0030-4018	1,2,4-7
A	*title, abstract*, *sections 2.2. Axial scanning range and 4. Discussion*, *figures 1, 2, 8*	3
Y	WO 2006/039091 A (GEN HOSPITAL CORP [US]; YUN SEOK-HYUN [US]; BOUMA BRETT EUGENE [US]; T) 13 April 2006 (2006-04-13) *figures 1, 8* page 5, line 25 - page 6, line 8 page 10, line 23 - page 11, line 12 page 15, line 25 - page 17, line 5	1,2,4-7
A		3
P,X	S. M. R. MOTAGHIAN NEZAM ET AL: "Increased ranging depth in optical frequency domain imaging by frequency encoding" OPTICS LETTERS, vol. 32, no. 19, 1 October 2007 (2007-10-01), pages 2768-2770, XP002483301	1-6
A	the whole document	7

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6738144	B1	18-05-2004	NONE	
US 2006244973	A1	02-11-2006	NONE	
WO 2006039091	A	13-04-2006	EP 1787105 A2	23-05-2007
			JP 2008512686 T	24-04-2008
			KR 20070072515 A	04-07-2007

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

To:

see form PCT/ISA/220

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/US2008/051432

International filing date (day/month/year)
18.01.2008

Priority date (day/month/year)
19.01.2007

International Patent Classification (IPC) or both national classification and IPC
INV. G01B9/02

Applicant
THE GENERAL HOSPITAL CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☒ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Malcoci, Andrei

Telephone No. +49 89 2399-5814



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2008/051432

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in electronic form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

Box No. II Priority

1. ☒ The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.
2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2008/051432

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>3,7</u>
	No: Claims	<u>1,2,4-6</u>
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-7</u>
Industrial applicability (IA)	Yes: Claims	<u>1-7</u>
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. Reference is made to the following documents:

D1: US6738144 B1

D2: US2006244973 A1

D3: XP004964674

D4: WO2006039091 A2

D5: XP02483301

2. The present application does not meet the criteria of **Article 33(1) PCT**, because the subject-matter of **claims 1,2 and 4-6** is not novel in the sense of **Article 33(2) PCT**.

2.1. An apparatus as defined by **claim 1** is anticipated by **D1** (figure 4, column 7, line 65 - column 8, line 25, column 4 lines 18 - 61).

The document **D1** describes:

An apparatus (title) comprising:

- a) at least one first arrangement providing at least one first electro-magnetic radiation to a sample (references 121 or 122 in figure 4, column 7, line 65 - column 8, line 25),
- b) at least one second electro-magnetic radiation to a first reference *arm* (reference 131 in figure 4, column 7, line 65 - column 8, line 25)
- c) and at least one third electro-magnetic radiation to a second reference *arm* (reference 132 in figure 4, column 7, line 65 - column 8, line 25),
- d) wherein a frequency of radiation provided by the at least one first arrangement varies over time (column 4, lines 18-19, "a tunable light source");
- e) and at least one second arrangement configured to detect:
a first interference between at least one fourth electro-magnetic radiation associated with the at least one first electro-magnetic radiation and at least one fifth electro-magnetic radiation associated with the at least one second

radiation, and a second interference between at least one sixth electro-magnetic radiation associated with the at least one first electro-magnetic radiation and at least one seventh electro-magnetic radiation associated with the at least one third radiation (column 8, lines 21-25 in combination with column 4, lines 57,58 and references 170, 180, 190 and 200 in figure 6).

2.2. The additional features of **claims 2 and 4-6** are also known from **D1**.

Claim 2

The interferometer described in **D1** performs simultaneous measurements at two arbitrary locations within the sample (column 7, line 65 - column 8, line 15 in combination with figure 4) this implying that the reference arms have different lengths.

Claims 4-6

In the reference arms of the interferometer known from **D1** light is modulated at different frequencies (column 8, lines 1-6, figure 4).

For completeness it will be noted that this feature is also rendered obvious by the document **D3** (figure 8 and section 4. Discussion) wherein the interferometer also includes means for shifting frequency.

2.3 Using more than two reference arms as shown in a further embodiment disclosed in the application (figure 3) is also described in **D1** (column 8, lines 10-15).

3. Objections under Article 33(3) PCT

3.1 Dependent **claims 3 and 7** do not contain any features which, in combination with the features of the claims to which they refer, meet the requirements of the PCT in respect of inventive step (**Article 33(3) PCT**).

Claim 3

The interferometer described in **D1** performs simultaneous measurements

at two arbitrary locations within the sample (column 7, line 65 - column 8, line 15 in combination with figure 4) this implying that the reference arms have different lengths. A skilled person would choose a suitable difference in the lengths of the reference arms (such as $>500\text{ }\mu\text{m}$), for practical reasons such as avoiding overlapping of the simultaneously inspected domains.

Claim 7

Using a laser having a tuning rate of 100 Terahertz/second is common in the art (see for instance **D2**, abstract or **D4**, page 10, line 23 - page 11, line 12).

- 3.2 For completeness it will be shown that the subject matter of **claim 1** is not inventive over the disclosure of **D2** ([0091]-[0095], figure 5 or [0122]-[0151], figure 10A).

The interferometer defined by **claim 1** differs from the disclosure of **D2** in that it has two instead of only one reference arms, this having the technical effect that simultaneous measurements at different locations within a sample are performed. The claimed solution to the objective technical problem of inspecting with an interferometer two different locations simultaneously is known in the art (see for instance **D3** (abstract, section 2.2. Axial scanning range and section 4. Discussion, figures 1,2 and 8) or **D1** ([column 7, line 65 - column 8, line 15])). Thus a skilled person would arrive at the same solution without being inventive.

- 3.3 Using more than two reference arms as shown in a further embodiment disclosed in the application (figure 3) is also described in **D1** (column 8, lines 10-15) and is therefore not considered as inventive over the disclosure of **D2**.

Re Item VI

- 4.1 Document **D5** has been published after the priority date but before the filing date and describes the subject matter of **claims 1-6**.

Re Item VIII

Clarity objections under Article 6 PCT.

1. Use of the term "at least" in the description ([0009] and [0011]) and in **claims 1, 4-7** leads to a multitude of configurations that are confuse. Therefore said claims lack clarity.
2. The term "reference" in **claims 1-5** is ambiguous and appears to be used with the sense of "reference arm".
3. The invention relates to an apparatus for use in the optical frequency domain (see description, page 1, [0002]) whereas the term "electromagnetic radiation" used in **claims 1 and 4-7** extends beyond the domain of optical frequencies, including for instance the microwave domain and is therefore not supported by the Description (PCT/GL/ISPE1, 5.43).
4. In **claim 5** and in the description ([0010] on pages 9 and 10) the first reference (*arm*) shifts the frequency of the third optical signal whereas according to claim 1 and another passage of the description ([0009] on page 9, figure 2A) the third optical signal is provided to the second reference arm. Thus the second (and not on the first) reference arm shifts the frequency of the third optical signal.
5. The meaning of the term "associated" in **claim 1** used for instance in the context "electro-magnetic radiation associated with" is not clear.

Re Item VII

Remarks regarding form and content

1. The features of the claims are not provided with reference signs placed in parentheses (**Rule 6.2(b) PCT**).
2. Contrary to the requirements of **Rule 5.1(a)(ii) PCT**, the relevant background art disclosed in the documents **D1-D5** is not mentioned in the description, nor are these documents identified therein.
3. The documents reflecting the prior art described in Figures 1A, 1B, 1C and 1D are not

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2008/051432

identified in the description (**Rule 5.1(a)(ii) PCT**).

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information

For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.

Amending claims under Art. 19 PCT

Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.

Filing a demand for international preliminary examination

In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/ WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).

If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).

Filing informal comments

After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.

End of the international phase

At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).

Relevant PCT Rules and more information

Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003

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